

Active Recombinant Human MMP13 Protein

Cat. No. MMP13-5420H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human MMP13 (104 a.a. - 274 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	104.-274. a.a.
Description	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The protein encoded by this gene cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. The gene is part of a cluster of MMP genes which localize to chromosome 11q22.3. [provided by RefSeq]
Form	Liquid
Bio-activity	> 500 mU/mg
Molecular Mass	19.5 kDa

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AA Sequence	YNVFPRTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVWSDVTPLNFTRLHDGI ADIMISFGIKEHGDFYPFDGPGSGLLAHAFPPGPNYGGDAHFDDDETWTSSSKGYNL FLVAAHEFGHSLGLDHSKDPGALMFPIYTYTGKSHFMLPDDDVQGIQSLYGPGEDED PN
Purity	> 90% by SDS-PAGE
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Concentration	0.2 mg/mL
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, 5 mM CaCl ₂ , pH 7.5

GENE INFORMATION

Gene Name	MMP13 matrix metalloproteinase 13 (collagenase 3) [Homo sapiens]
Official Symbol	MMP13
Synonyms	MMP13; matrix metalloproteinase 13 (collagenase 3); matrix metalloproteinase 13 (collagenase 3); collagenase 3; CLG3; MMP-13; MANDP1;
Gene ID	4322
mRNA Refseq	NM_002427
Protein Refseq	NP_002418

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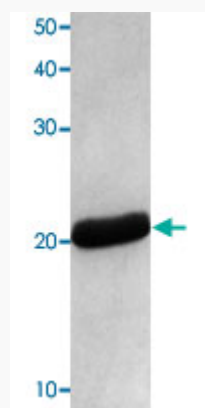
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MIM 600108

UniProt ID P45452

Quality Control
Testing:



15% SDS-PAGE Stained with Coomassie Blue

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